

EX03-079C-US patentin.txt  
SEQUENCE LISTING

<110> EXELIXIS, INC.

<120> MAPK7 AS MODIFIER OF BRANCHING MORPHOGENESIS AND METHODS OF USE

<130> EX03-079C-US

<150> US 60/420,554

<151> 2002-10-23

<160> 9

<170> PatentIn version 3.2

<210> 1

<211> 2918

<212> DNA

<213> Homo sapiens

<400> 1

```

ggacagggca gctcaagacg ctgaggtggt ggctgcggcc tttgaacaag taagtgagcc      60
accctcggag acccccgcg cggggacggg aggccggcga gcctcgggac ctctgaaagc      120
cttgaggagg cgcggggaca ccatggccga gcctctgaag gaggaagacg gcgaggacgg      180
ctctgcggag ccccccgggc ccgtgaaggc cgaacccgcc cacaccgctg cctctgtagc      240
ggccaagaac ctggccctgc ttaaagcccg ctccttcgat gtgacctttg acgtggggcga      300
cgagtacgag atcatcgaga ccataggcaa cggggcctat ggagtgggtg cctccgccccg      360
ccgccgcctc accggccagc aggtggccat caagaagatc cctaattgctt tcgatgtggt      420
gaccaatgcc aagcggaccc tcagggagct gaagatcctc aagcacttta aacacgacaa      480
catcatcgcc atcaaggaca tcctgaggcc caccgtgccc tatggcgaat tcaaattctgt      540
ctacgtggtc ctggacctga tggaaaagcga cctgcaccag atcatccact cctcacagcc      600
cctcacactg gaacacgtgc gctacttcct gtaccaactg ctgcggggcc tgaagtacat      660
gcactcggct caggtcatcc accgtgacct gaagccctcc aacctattgg tgaatgagaa      720
ctgtgagctc aagattgggtg actttgggtat ggctcgtggc ctgtgcacct cgcccgtga      780
acatcagtac ttcatgactg agtatgtggc cacgcgctgg taccgtgcgc ccgagctcat      840
gctctctttg catgagtata cacaggctat tgacctctgg tctgtgggct gcatctttgg      900
tgagatgctg gcccggcgcc agctcttccc aggcaaaaac tatgtacacc agctacagct      960
catcatgatg gtgctgggta ccccatcacc agccgtgatt caggctgtgg gggctgagag     1020
ggtgcgggcc tatatccaga gcttgccacc acgccagcct gtgccctggg agacagtgtg     1080
cccaggtgcc gaccgccagg ccctatcact gctgggtcgc atgctgcgtt ttgagcccag     1140
cgctcgcata tcagcagctg ctgcccttcg ccaccctttc ctggccaagt accatgatcc     1200
tgatgatgag cctgactgtg ccccgccctt tgactttgcc tttgaccgcg aagccctcac     1260

```

## EX03-079C-US patentin.txt

tcgggagcgc attaaggagg ccattgtggc tgaaattgag gacttccatg caaggcgtga	1320
gggcatccgc caacagatcc gcttccagcc ttctctacag cctgtggcta gtgagcctgg	1380
ctgtccagat gttgaaatgc ccagtcccctg gggtcccagt ggggactgtg ccatggagtc	1440
tccaccacca gccccgccac catgccccgg ccctgcacct gacaccattg atctgaccct	1500
gcagccacct ccaccagtca gtgagcctgc cccaccaaag aaagatgggtg ccatctcaga	1560
caatactaag gctgccctta aagctgccct gctcaagtct ttgaggagcc ggctcagaga	1620
tggccccagc gcacccctgg aggtcctga gcctcggaag ccggtgacag cccaggagcg	1680
ccagcgggag cgggaggaga agcggcggag gcggcaagaa cgagccaagg agcgggagaa	1740
acggcggcag gagcgggagc gaaaggaacg gggggctggg gcctctgggg gccctccac	1800
tgaccccttg gctggactag tgctcagtga caatgacaga agcctgttg aacgctggac	1860
tcgaatggcc cggcccgag cccagccct cacctctgtg ccggcccctg cccagcgcc	1920
aacgccaaacc ccaacccag tccaacctac cagtcctcct cctggcccctg tagccagcc	1980
cactggccccg caaccacaat ctgcgggctc tacctctggc cctgtacccc agcctgcctg	2040
cccacccctt ggccctgcac cccacccac tggccctcct gggcccatcc ctgtccccgc	2100
gccacccag attgccacct ccaccagcct cctggctgcc cagtcacttg tgccaccccc	2160
tgggctgcct ggctccagca cccagaggat tttgccttac ttccacctg gcctgccgcc	2220
cccagacgcc gggggagccc ctcagtcttc catgtcagag tcacctgatg tcaaccttgt	2280
gaccagcag ctatctaagt cacagggtga ggaccccctg cccctgtgt tctcaggcac	2340
accaaagggc agtggggctg gctacgggtg tggctttgac ctggaggaat tcttaaacca	2400
gtctttcgac atgggcgtgg ctgatgggcc acaggatggc caggcagatt cagcctctct	2460
ctcagcctcc ctgcttgctg actggctcga aggccatggc atgaaccctg ccgatattga	2520
gtccctgcag cgtgagatcc agatggactc cccaatgctg ctggctgacc tgcctgacct	2580
ccaggacccc tgaggcccc agcctgtgcc ttgctgccac agtagaccta gttccaggat	2640
ccatgggagc attctcaaag gcttttagccc tggaccacg aggtgaggct cggcttggat	2700
tattctgcag gttcatctca gaccacctt tcagccttaa gcagccacct gagccaccac	2760
cgagccatgg caggatcggg agaccccaac tccccctgaa caatcctttt cagtattata	2820
tttttattat tattatgtta ttattacact gtctttttgc catcaaaatg aggctgtga	2880
aatacaaggt tcccttctgc aaaaaaaaaa aaaaaaaaaa	2918

<210> 2  
 <211> 2828  
 <212> DNA  
 <213> Homo sapiens  
 <400> 2

## EX03-079C-US patentin.txt

gaattccgga gacccccgcg ctgggggacgg gaggccggcg agcctcggga cctctgaaag	60
ccttgaggag gcccggggac accatggccg agcctctgaa ggaggaagac ggcgaggacg	120
gctctgcgga gccccgggcc cgtgaaggtc gaacccgccc acaccgctgc ctctgtagcg	180
ccaagaacct ggccctgctt aaagcccgcg ccttcgatgt gacctttgac gtgggcgacg	240
agtacgagat catcgagacc ataggcaacg gggcctatgg agtgggtgtcc tccgcccgcc	300
gccgcctcac cggccagcag gtggccatca agaagatccc taatgctttc gatgtggtga	360
ccaatgccaa gcggaccctc agggagctga agatcctcaa gcactttaaa cacgacaaca	420
tcatcgccat caaggacatc ctgaggccca ccgtgcccta tggcgaattc aaatctgtct	480
acgtggtcct ggacctgatg gaaagcgacc tgcaccagat catccactcc tcacagcccc	540
tcacactgga acacgtgcgc tacttcctgt accaactgct gcggggcctg aagtacatgc	600
actcggctca ggtcatccac cgtgacctga agccctcaa cctattggtg aatgagaact	660
gtgagctcaa gattggtgac tttggtatgg ctctgtggcct gtgcacctcg cccgctgaac	720
atcagtactt catgactgag tatgtggcca cgcgtggta ccgtgcgccc gagctcatgc	780
tctctttgca tgagtataca caggctattg acctctggtc tgtgggctgc atctttggtg	840
agatgctggc ccggcgccag ctcttcccag gcaaaaacta tgtacaccag ctacagctca	900
tcatgatggt gctgggtacc ccatcaccag ccgtgattca ggctgtgggg gctgagaggg	960
tgcgggccta tatccagagc ttgccaccac gccagcctgt gccctgggag acagtgtacc	1020
caggtgccga ccgccaggcc ctatcactgc tgggtcgcac gctgcgtttt gagcccagcg	1080
ctcgcacttc agcagctgct gcccttcgcc accctttcct ggccaagtac catgatcctg	1140
atgatgagcc tgactgtgcc ccgccctttg actttgcctt tgaccgcgaa gccctcactc	1200
gggagcgcat taaggaggcc attgtggctg aaattgagga cttccatgca aggcgtgagg	1260
gcatccgcca acagatccgc ttccagcctt ctctacagcc tgtggctagt gagcctggct	1320
gtccagatgt tgaaatgccc agtccctggg ctcccagtg ggactgtgcc atggagtctc	1380
caccaccagc cccgccacca tgccccggcc ctgcacctga caccattgat ctgacctgc	1440
agccacctcc accagtcagt gagcctgccc caccaaagaa agatggtgcc atctcagaca	1500
atactaaggc tgcccttaaa gctgccctgc tcaagtcttt gaggagccgg ctgagagatg	1560
gccccagcgc acccctggag gctcctgagc ctcggaagcc ggtgacagcc caggagcgcc	1620
agcgggagcg ggaggagaag cggcggaggc ggcaagaacg agccaaggag cgggagaaac	1680
ggcggcagga gcgggagcga aaggaacggg gggctggggc ctctgggggc ccctccactg	1740
accccttggc tggactagtg ctgagtgaca atgacagaag cctgttgga cgctggactc	1800
gaatggcccc gcccgcagcc ccagccctca cctctgtgcc ggccccctgcc ccagcgccaa	1860
cgccaacccc aaccccagtc caacctacca gtcctcctcc tggccctcta gcccgaccca	1920

## EX03-079C-US patentin.txt

ctggccccgca accacaatct gcggggtcta cctctggccc tgtaccccag cctgcctgcc 1980  
 caccaccttg ccctgcaccc caccacctg gccctcctgg gcccatccct gtccccgcgc 2040  
 caccacagat tgccacctcc accagcctcc tggctgcca gtcacttggt ccacacctg 2100  
 ggctgcctgg ctccagcacc ccaggagttt tgccttactt cccacctggc ctgccgcccc 2160  
 cagacgccgg gggagccccct cagtcttcca tgtcagagtc acctgatgtc aaccttggtga 2220  
 cccagcagct atctaagtca cagggtggagg acccctgcc ccctgtgttc tcaggcacac 2280  
 caaagggcag tggggctggc tacgggtgtt gctttgacct ggaggaattc ttaaaccagt 2340  
 ctttcgacat gggcgtggct gatggggccac aggatggcca ggcagattca gcctctctct 2400  
 cagcctccct gcttgctgac tggctcgaag gccatggcat gaacctgcc gatattgagt 2460  
 ccctgcagcg tgagatccag atggactccc caatgctgct ggctgacctg cctgacctcc 2520  
 aggacacctg aggccccag cctgtgcctt gctgccacag tagacctagt tccaggatcc 2580  
 atgggagcat tctcaaaggc tttagccctg gaccacagc gtgaggctcg gcttggtata 2640  
 ttctgcaggt tcatctcaga cccacctttc agccttaagc agccacctga gccaccaccg 2700  
 agccatggca ggatcgggag accccaactc cccctgaaca atccttttca gtattatatt 2760  
 ttattatta ttatgttatt attacactgt cttttgccat caaatgagg cctgtgaaat 2820  
 acaagggt 2828

<210> 3  
 <211> 2746  
 <212> DNA  
 <213> Homo sapiens

<400> 3  
 ggcacgaggc gcggggtccg cagaggagca gaggttgggc ggccgcctcg gttaactccg 60  
 ctgcagccca aagcacggga atcgcgggac agacaaacga gcggagggaa gataacctaga 120  
 agccaggaaa ccgcgagctg cagtccaact tggccggaag ctgcggagag gctcagccac 180  
 cggaagtcat tggaggggtc ggccggacgc tctagaatcc cggaggaccg ggatctctgt 240  
 gggtggccgt gacgggcacc ctctaccggg gatgacacat tcccagagct cctgggacca 300  
 agcaaattggc ggacacaatt ccctgggcgg aaggggactt cgggagccag tagccaagct 360  
 acgtggtcct ggacctgatg gaaagcgacc tgcaccagat catccactcc tcacagcccc 420  
 tcacactgga acacgtgcgc tacttcctgt accaactgct gcggggcctg aagtacatgc 480  
 actcggctca ggtcatccac cgtgacctga agccctcaa cctattggtg aatgagaact 540  
 gtgagctcaa gattggtgac tttggtatgg ctctgtggcct gtgcacctcg cccgctgaac 600  
 atcagtactt catgactgag tatgtggcca cgcgctggta ccgtgcgccc gagctcatgc 660  
 tctctttgca tgagtataca caggctattg acctctgggtc tgtgggctgc atctttggtg 720

## EX03-079C-US patentin.txt

agatgctggc ccggcgccag ctcttcccag gcaaaaacta tgtacaccag ctacagctca	780
tcatgatggg gctgggtacc ccatcaccag ccgtgattca ggctgtgggg gctgagaggg	840
tgcgggccta tatccagagc ttgccaccac gccagcctgt gccctgggag acagtgtacc	900
caggtgccga ccgccaggcc ctatcactgc tgggtcgcac gctgcgtttt gagcccagcg	960
ctcgcacatc agcagctgct gcccttcgcc accctttcct ggccaagtac catgatcctg	1020
atgatgagcc tgactgtgcc ccgccctttg actttgcctt tgaccgcgaa gccctcactc	1080
gggagcgcat taaggaggcc attgtggctg aaattgagga cttccatgca aggcgtgagg	1140
gcatccgcca acagatccgc ttccagcctt ctctacagcc tgtggctagt gagcctggct	1200
gtccagatgt tgaaatgccc agtccctggg ctcccagtg ggactgtgcc atggagtctc	1260
caccaccagc cccgccacca tgccccggcc ctgcacctga caccattgat ctgaccctgc	1320
agccacctcc accagtcagt gagcctgccc caccaaagaa agatggtgcc atctcagaca	1380
atactaaggc tgcccttaaa gctgccctgc tcaagtcttt gaggagccgg ctacagagatg	1440
gccccagcgc acccctggag gctcctgagc ctcggaagcc ggtgacagcc caggagcgcc	1500
agcgggagcg ggaggagaag cggcggaggc ggcaagaacg agccaaggag cgggagaaac	1560
ggcggcagga gcgggagcga aaggaacggg gggctggggc ctctgggggc ccctccactg	1620
acccttggc tggactagtg ctacgtgaca atgacagaag cctgttgga cgctggactc	1680
gaatggcccc gcccgagcc ccagccctca cctctgtgcc ggccccctgcc ccagcgccaa	1740
cgccaacccc aacccagtc caacctacca gtccctctcc tggccctgta gccagccca	1800
ctggccccga accacaatct gcgggctcta cctctggccc tgtaccccag cctgcctgcc	1860
cacccccctg ccctgcaccc caccctactg gccctcctgg gcccatccct gtccccgcgc	1920
cacccagat tgccacctcc accagcctcc tggctgcccc gtcacttgtg ccacccccctg	1980
ggctgcctgg ctccagcacc ccaggagttt tgccttactt cccacctggc ctgccgcccc	2040
cagacgccgg gggagcccct cagtcttcca tgtcagagtc acctgatgtc aaccttgtga	2100
cccagcagct atctaagtca caggtggagg accccctgcc ccctgtgttc tcaggcacac	2160
caaagggcag tggggctggc tacgggtgtg gctttgacct ggaggaattc ttaaaccagt	2220
ctttcgacat gggcgtggct gatgggccac aggatggcca ggcagattca gcctctctct	2280
cagcctccct gcttgcctgac tggctcgaag gccatggcat gaacctgcc gatattgagt	2340
ccctgcagcg tgagatccag atggactccc caatgctgct ggctgacctg cctgacctcc	2400
aggacccctg agggccccag cctgtgcctt gctgccacag tagacctagt tccaggatcc	2460
atgggagcat tctcaaaggc tttagccctg gaccacagc gtgaggctcg gcttggatta	2520
ttctgcaggc tcatctcaga cccacctttc agccttaagc agccacctga gccaccaccg	2580

## EX03-079C-US patentin.txt

agccatggca ggatcgggag accccaactc cccctgaaca atccttttca gtattatatt	2640
tttattatta ttatgttatt attacactgt ctttttgcca tcaaaatgag gcctgtgaaa	2700
tacaagggtc ccttctgcaa aaaaaaaaaa aaaaaaaaaa aaaaaa	2746

<210> 4  
 <211> 2746  
 <212> DNA  
 <213> Homo sapiens

<400> 4	
ggcacgaggc gcgggctccg cagaggagca gaggttgggc ggccgcctcg gttaactccg	60
ctgcagccca aagcacggga atcgcgggac agacaaacga gcggagggaa gatacctaga	120
agccaggaaa ccgcgagctg cagtccaact tggccggaag ctgcggagag gctcagccac	180
cggaaagtcag tggaggggtc ggccggacgc tctagaatcc cggaggaccg ggatctctgt	240
ggttggccgt gacgggcacc ctctaccggg gatgacacat tcccagagct cctgggacca	300
agcaaatggc ggacacaatt ccctgggcgg aaggggactt cgggagccag tagccaagct	360
acgtggtcct ggacctgatg gaaagcgacc tgcaccagat catccactcc tcacagcccc	420
tcacactgga acacgtgctg tacttcctgt accaactgct gcggggcctg aagtacatgc	480
actcggctca ggtcatccac cgtgacctga agccctccaa cctattggtg aatgagaact	540
gtgagctcaa gattggtgac tttggtatgg ctctgtggcct gtgcacctcg cccgctgaac	600
atcagtactt catgactgag tatgtggcca cgcgctggta ccgtgcgccc gagctcatgc	660
tctctttgca tgagtataca caggctattg acctctggtc tgtgggctgc atctttggtg	720
agatgctggc ccggcgccag ctcttcccag gcaaaaaacta tgtacaccag ctacagctca	780
tcatgatggt gctgggtacc ccatcaccag ccgtgattca ggctgtgggg gctgagaggg	840
tgcgggccta tatccagagc ttgccaccac gccagcctgt gccctgggag acagtgtacc	900
cagggtgccga ccgccaggcc ctatcactgc tgggtcgcac gctgcgtttt gagcccagcg	960
ctcgcactct agcagctgct gcccttcgcc accctttcct ggccaagtac catgatcctg	1020
atgatgagcc tgactgtgcc ccgccctttg actttgcctt tgaccgcgaa gccctcactc	1080
gggagcgcac taaggaggcc attgtggctg aaattgagga cttccatgca aggcgtgagg	1140
gcatccgccac acagatccgc ttccagcctt ctctacagcc tgtggctagt gagcctggct	1200
gtccagatgt tgaaatgccc agtcccctggg ctcccagtgg ggactgtgcc atggagtctc	1260
caccaccagc cccgccacca tgccccggcc ctgcacctga caccattgat ctgaccctgc	1320
agccacctcc accagtcagt gagcctgccc caccaaaagaa agatggtgcc atctcagaca	1380
atactaaggc tgcccctaaa gctgccctgc tcaagtcttt gaggagccgg ctgagagatg	1440
gccccagcgc acccctggag gctcctgagc ctcggaagcc ggtgacagcc caggagcgcc	1500

## EX03-079C-US patentin.txt

```

agcgggagcg ggaggagaag cggcggaggg ggcaagaacg agccaaggag cgggagaaac 1560
ggcggcagga gcgggagcga aaggaaacggg gggctggggc ctctgggggc ccctccactg 1620
accccttggc tggactagtg ctcaagtaca atgacagaag cctgttgga cgttggactc 1680
gaatggcccc gcccgcagcc ccagccctca cctctgtgcc ggcccctgcc ccagcgccaa 1740
cgccaacccc aaccccagtc caacctacca gtcctcctcc tggccctgta gcccagccca 1800
ctggcccgca accacaatct gcgggctcta cctctggccc tgtaccccag cctgcctgcc 1860
cacccttggg ccctgcaccc caccctactg gccctcctgg gcccattcct gtccccgcgc 1920
caccctcagat tgccacctcc accagcctcc tggctgcccc gtcacttggt ccacccctg 1980
ggctgcctgg ctccagcacc ccaggagttt tgccttactt cccacctggc ctgccgcccc 2040
cagacgccgg gggagccccct cagtcttcca tgctcagagtc acctgatgtc aaccttgatga 2100
cccagcagct atctaagtca cagggtggagg accccttgcc ccctgtgttc tcaggcacac 2160
caaagggcag tggggctggc tacgggtgtt gctttgacct ggaggaattc ttaaaccagt 2220
ctttcgacat gggcggtggc gatggggccac aggatggcca ggcagattca gcctctctct 2280
cagcctccct gcttgctgac tggctcgaag gccatggcat gaaccttgcc gatattgagt 2340
ccctgcagcg tgagatccag atggactccc caatgctgct ggctgacctg cctgacctcc 2400
aggacccctg aggccccag cctgtgcctt gctgccacag tagacctagt tccaggatcc 2460
atgggagcat tctcaaaggc tttagccctg gaccagcag gtgaggctcg gcttggatta 2520
ttctgcaggt tcatctcaga cccacctttc agccttaagc agccacctga gccaccaccg 2580
agccatggca ggatcgggag accccaactc cccctgaaca atccttttca gtattatatt 2640
tttattatta ttatgttatt attacactgt ctttttgcca tcaaaatgag gcctgtgaaa 2700
tacaagggtc ctttctgcaa aaaaaaaaaa aaaaaaaaaa aaaaaa 2746

```

```

<210> 5
<211> 2892
<212> DNA
<213> Homo sapiens

```

```

<400> 5
ggcacgagggc ggcctttgaa caagtaagt agccaccctc ggagaccccc gcgctgggga 60
cgggaggccg gcgagcctcg ggacctctga aagccttgag gaggcgcggg gacaccatgg 120
ccgagcctct gaaggaggaa gacggcgagg acggctctgc ggagcccccc gggcccgtga 180
aggccgaacc cgcccacacc gctgcctctg tagcggccaa gaacctggcc ctgcttaaag 240
cccgctcctt cgatgtgacc tttgacgtgg gcgacgagta cgagatcatc gagaccatag 300
gcaacggggc ctatggagt gtgtcctccg cccgcccggc cctcaccggc cagcagggtg 360
ccatcaagaa gatcccta atgctttcgat tggtgaccaa tgccaagcgg accctcaggg 420

```

## EX03-079C-US patentin.txt

agctgaagat cctcaagcac tttaaacacg acaacatcat cgccatcaag gacatcctga	480
ggcccaccgt gccctatggc gaattcaa at ctgtctacgt ggtcctggac ctgatggaaa	540
gcgacctgca ccagatcatc cactcctcac agcccctcac actggaacac gtgcgctact	600
tcctgtacca actgctgcgg ggcctgaagt acatgcactc ggctcagggtc atccaccgtg	660
acctgaagcc ctccaaccta ttggtgaatg agaactgtga gctcaagatt ggtgactttg	720
gtatggctcg tggcctgtgc acctcgcccg ctgaacatca gtacttcatg actgagtatg	780
tggccacgcg ctggtaccgt gcgcccgcgc tcatgctctc tttgcatgag tatacacagg	840
ctattgacct ctggtctgtg ggctgcatct ttggtgagat gctggcccgg cgccagctct	900
tcccaggcaa aaactatgta caccagctac agctcatcat gatggtgctg ggtaccccat	960
caccagccgt gattcaggct gtgggggctg agaggggtgcg ggcctatatc cagagcttgc	1020
caccacgcca gcctgtgccc tgggagacag tgtacccagg tgccgaccgc caggccctat	1080
cactgctggg tcgcatgctg cgttttgagc ccagcgctcg catctcagca gctgctgccc	1140
ttcgccaccc tttcctggcc aagtaccatg atcctgatga tgagcctgac tgtgccccgc	1200
cctttgactt tgcctttgac cgcaagccc tcaactcggga gcgcattaag gaggccattg	1260
tggctgaaat tgaggacttc catgcaaggc gtgagggcat ccgccaacag atccgcttcc	1320
agccttctct acagcctgtg gctagtgcgc ctggctgtcc agatgttgaa atgcccagtc	1380
cctgggctcc cagtggggac tgtgccatgg agtctccacc accagccccg ccaccatgcc	1440
ccggccctgc acctgacacc attgatctga ccctgcagcc acctccacca gtcagtgcgc	1500
ctgccccacc aaagaaagat ggtgccatct cagacaatac taaggctgcc cttaaagctg	1560
ccctgctcaa gtctttgagg agccggctca gagatggccc cagcgacccc ctggaggctc	1620
ctgagcctcg gaagccggtg acagcccagg agcgccagcg ggagcgggag gagaagcggc	1680
ggaggcggca agaacgagcc aaggagcggg agaaacggcg gcaggagcgg gagcgaaagg	1740
aacggggggc tggggcctct gggggccccct ccaactgaccc cttggctgga ctagtgctca	1800
gtgacaatga cagaagcctg ttggaacgct ggactcgaat ggcccggccc gcagccccag	1860
ccctcacctc tgtgccggcc cctgccccag cgccaacgcc aaccccaacc ccagtccaac	1920
ctaccagtcc tcctcctggc cctgtagccc agcccactgg cccgcaacca caatctgcgg	1980
gctctacctc tggccctgta cccagcctg cctgcccacc ccctggccct gcaccccacc	2040
ccactggccc tcctgggccc atccctgtcc ccgcgccacc ccagattgcc acctccacca	2100
gcctcctggc tgcccagtca cttgtgccac cccctgggct gcctggctcc agcaccccag	2160
gagttttgcc ttacttccca cctggcctgc cgccccaga cgccggggga gccctcagt	2220
cttccatgtc agagtcacct gatgtcaacc ttgtgaccca gcagctatct aagtcacagg	2280
tggaggaccc cctgccccct gtgttctcag gcacacaaaa gggcagtggtg gctggctacg	2340



## EX03-079C-US patentin.txt

gtgttggtt tgacctggag gaattcttaa accagtcctt cgacatgggc gtggctgatg 2400  
 ggccacagga tggccaggca gattcagcct ctctctcagc ctccctgctt gctgactggc 2460  
 tcgaaggcca tggcatgaac cctgccgata ttgagtcctt gcagcgtgag atccagatgg 2520  
 actccccaat gctgctggct gacctgcctg acctccagga cccctgaggc cccagcctg 2580  
 tgccttgctg ccacagtaga cctagttcca ggatccatgg gagcattctc aaaggcttta 2640  
 gccctggacc cagcaggtag ggctcggctt ggattattct gcaggttcat ctcagaccca 2700  
 cctttcagcc ttaagcagcc acctgagcca ccaccgagcc atggcaggat cgggagaccc 2760  
 caactcccc tgaacaatcc ttttcagtat tatattttta ttattattat gttattatta 2820  
 cactgtcttt ttgccatcaa aatgaggcct gtgaaataca aggttccctt ctgcaaaaaa 2880  
 aaaaaaaaaa aa 2892

<210> 6  
 <211> 2826  
 <212> DNA  
 <213> Homo sapiens

<400> 6  
 cggagacccc cgcgctgggg acgggaggcc ggcgagcctc gggacctctg aaagccttga 60  
 ggaggcgcgg ggacaccatg gccgagcctc tgaaggagga agacggcgag gacggctctg 120  
 cggagccccc cgggcccgtg aaggccgaac ccgcccacac cgctgcctct gtagcggcca 180  
 agaacctggc cctgcttaaa gcccgtcctt tcgatgtgac ctttgacgtg ggcgacgagt 240  
 acgagatcat cgagaccata ggcaacgggg cctatggagt ggtgtcctcc gcccgccgcc 300  
 gcctcaccgg ccagcaggtag gccatcaaaa agatccctaa tgctttcgat gtggtgacca 360  
 atgccaagcg gacctcagg gagctgaaga tcctcaagca ctttaaacac gacaacatca 420  
 tcgccatcaa ggacatcctg agggccaccg tgccctatgg cgaattcaaa tctgtctacg 480  
 tggctcctgga cctgatggaa agcgacctgc accagatcat ccactcctca cagccccctca 540  
 cactggaaca cgtgcgtac ttctgtacc aactgctgcg gggcctgaag tacatgcact 600  
 cggctcaggt catccaccgt gacctgaagc cctccaacct attggtgaat gagaactgtg 660  
 agctcaagat tggtgacttt ggtatggctc gtggcctgtg cacctcgccc gctgaacatc 720  
 agtacttcat gactgagtat gtggccacgc gctggtaccg tgcgcccagag ctcatgctct 780  
 ctttgcatga gtatacacag gctattgacc tctggtctgt gggctgcatc tttggtgaga 840  
 tgctggcccc gcgccagctc ttcccaggca aaaactatgt acaccagcta cagctcatca 900  
 tgatggtgct gggtaaccca tcaccagccg tgattcaggc tgtgggggct gagaggggtgc 960  
 gggcctatat ccagagcttg ccaccacgcc agcctgtgcc ctgggagaca gtgtacccag 1020  
 gtgccgaccg ccaggcccta tcaactgctgg gtcgcatgct gcgttttgag cccagcgctc 1080

## EX03-079C-US patentin.txt

gcatctcagc agctgctgcc cttcgccacc ctttcctggc caagtaccat gatcctgatg 1140  
 atgagcctga ctgtgccccg cccttttgact ttgcctttga ccgcgaagcc ctccactcggg 1200  
 agcgcattaa ggaggccatt gtggctgaaa ttgaggactt ccatgcaagg cgtgaggggca 1260  
 tccgccaaca gatccgcttc cagccttctc tacagcctgt ggctagttag cctggctgtc 1320  
 cagatgttga aatgcccagt ccctgggctc ccagtgggga ctgtgccatg gagtctccac 1380  
 caccagcccc gccaccatgc cccggcccctg cacctgacac cattgatctg accctgcagc 1440  
 cacctccacc agtcagttag cctgccccac caaagaaaga tggtgccatc tcagacaata 1500  
 ctaaggctgc ccttaaagct gccctgctca agtcttttag gagccggctc agagatggcc 1560  
 ccagcgcacc cctggaggct cctgagcctc ggaagccggt gacagcccag gagcgccagc 1620  
 gggagcgagg gagagaagcgg cggaggcggc aagaacgagc caaggagcgg gagaaacggc 1680  
 ggcaggagcg ggagcgaaaag gaacgggggg ctggggcctc tgggggcccc tccactgacc 1740  
 ccttggtggt actagtgtc agtgacaatg acagaagcct gttggaacgc tggactcgaa 1800  
 tggcccggcc cgcagcccca gccctcacct ctgtgccggc ccctgccccca gcgccaacgc 1860  
 caaccccaac cccagtccaa cctaccagtc ctccctcctg ccctgtagcc cagcccactg 1920  
 gcccgcgaacc acaatctgcg ggctctacct ctggccctgt accccagcct gcctgcccac 1980  
 cccctggccc tgcacccac cccactggcc ctccctgggc catccctgtc cccgcgccac 2040  
 cccagattgc cacctccacc agcctcctgg ctgcccagtc acttggtgcca cccctggggc 2100  
 tgcctggctc cagcacccca ggagttttgc cttacttccc acctggcctg ccgccccag 2160  
 acgccggggg agcccctcag tcttccatgt cagagtcacc tgatgtcaac cttgtgaccc 2220  
 agcagctatc taagtcacag gtggaggacc ccctgcccc tgtgttctca ggcacaccaa 2280  
 agggcagtggt ggctggctac ggtgttggct ttgacctgga ggaattctta aaccagtctt 2340  
 tcgacatggg cgtggctgat gggccacagg atggccaggc agattcagcc tctctctcag 2400  
 cctccctgct tgctgactgg ctcgaaggcc atggcatgaa ccctgccgat attgagtccc 2460  
 tgcagcgtga gatccagatg gactccccaa tgctgctggc tgacctgcct gacctccagg 2520  
 acccctgagg cccccagcct gtgccttgct gccacagtag acctagtcc aggatccatg 2580  
 ggagcattct caaaggcttt agccctggac ccagcagggt aggctcggct tggattattc 2640  
 tgcaggttca tctcagaccc acctttcagc cttaagcagc cacctgagcc accaccgagc 2700  
 catggcagga tcgggagacc ccaactcccc ctgaacaatc cttttcagta ttatattttt 2760  
 attattatta tgttattatt aactgtctt ttggccatca aaatgaggcc tgtgaaatac 2820  
 aagggtt 2826

## EX03-079C-US patentin.txt

<211> 3113  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
 cgcgggctcc gcagaggagc agagggttggg cggccgcctc ggtaactcc gctgcagccc 60  
 aaagcacggg aatcgcggga cagacaaacg agcggaggga agatacctag aagccaggaa 120  
 accgcgagct gcagtccaac ttggccggaa gctgcggaga ggctcagcca ccggaagtca 180  
 gtggagggtt cggccggacg ctctagaatc ccggaggacc gggatctctg tggttggccg 240  
 tgacgggcac cctctaccgg ggatgacaca tttccagagc tcctgggacc aagcaaattg 300  
 cggacacaat tccctgggcg gaaggggact tcgggagcca gtagccaaga caccatggcc 360  
 gagcctctga aggaggaaga cggcgaggac ggctctgcgg agccccccg gcccgtgaag 420  
 gtcgaacccg cccacaccgc tgcctctgta gcggccaaga acctggccct gcttaaagcc 480  
 cgctccttcg atgtgacctt tgacgtgggc gacgagtacg agatcatcga gaccataggc 540  
 aacggggcct atggagtggg gtcctccgcc cgccgccgcc tcaccggcca gcaggtggcc 600  
 atcaagaaga tccctaattg tttcgatgtg gtgaccaatg ccaagcggac cctcaggag 660  
 ctgaagatcc tcaagcactt taaacacgac aacatcatcg ccatcaagga catcctgagg 720  
 cccaccgtgc cctatggcga attcaaattc gtctacgtgg tcctggacct gatggaaagc 780  
 gacctgcacc agatcatcca ctctcacag cccctcacac tggaacacgt gcgctacttc 840  
 ctgtaccaac tgctgcgggg cctgaagtac atgcactcgg ctgaggtcat ccaccgtgac 900  
 ctgaagccct ccaacctatt ggtgaatgag aactgtgagc tcaagattgg tgactttggg 960  
 atggctcgtg gcctgtgcac ctgcgccgct gaacatcagt acttcatgac tgagtatgtg 1020  
 gccacgcgct ggtaccgtgc gcccagagctc atgctctctt tgcattgagta tacacaggct 1080  
 attgacctct ggtctgtggg ctgcatcttt ggtgagatgc tggcccggcg ccagctcttc 1140  
 ccaggcaaaa actatgtaca ccagctacag ctcatcatga tgggtgctggg taccatca 1200  
 ccagccgtga ttcaggctgt gggggctgag aggggtgcggg cctatatcca gagcttgcca 1260  
 ccacgccagc ctgtgccctg ggagacagtg taccagggtg ccgaccgcca ggccctatca 1320  
 ctgctgggtc gcatgctgcg ttttgagccc agcgctcgca tctcagcagc tgctgccctt 1380  
 cgccaccctt tcctggccaa gtaccatgat cctgatgatg agcctgactg tgccccgccc 1440  
 tttgactttg cttttgaccg cgaagccctc actcgggagc gcattaagga ggccattgtg 1500  
 gctgaaattg aggacttcca tgcaaggcgt gagggcatcc gccaacagat ccgcttccag 1560  
 ctttctctac agcctgtggc tagtgagcct ggctgtccag atgttgaaat gccagtccc 1620  
 tgggctccca gtggggactg tgccatggag tctccaccac cagccccgcc accatgcccc 1680  
 ggccctgcac ctgacaccat tgatctgacc ctgcagccac ctccaccagt cagtgagcct 1740

## EX03-079C-US patentin.txt

gccccaccaa agaaagatgg tgccatctca gacaatacta aggctgccct taaagctgcc	1800
ctgctcaagt ctttgaggag ccggctcaga gatggcccca gcgcacccct ggaggctcct	1860
gagcctcggg agccggtgac agcccaggag cgccagcggg agcgggagga gaagcggcgg	1920
aggcggcaag aacgagccaa ggagcgggag aaacggcggc aggagcggga gcgaaaggaa	1980
cggggggctg gggcctctgg gggccccctc actgaccctt tggctggact agtgctcagt	2040
gacaatgaca gaagcctgtt ggaacgctgg actcgaatgg cccggcccgc agccccagcc	2100
ctcacctctg tgccggcccc tgccccagcg ccaacgccaa ccccaacccc agtccaacct	2160
accagtcctc ctcttgcccc tgtagccag cccactggcc cgcaaccaca atctgcgggc	2220
tctacctctg gccctgtacc ccagcctgcc tgcccacccc ctggccctgc accccacccc	2280
actggccctc ctggggcccat ccctgtcccc gcgccacccc agattgccac ctccaccagc	2340
ctcctggctg cccagtcact tgtgccaccc cctgggctgc ctggctccag caccacagga	2400
gttttgcctt acttcccacc tggcctgccg cccccagacg ccgggggagc ccctcagtct	2460
tccatgtcag agtcacctga tgtcaacctt gtgaccacgc agctatctaa gtcacaggtg	2520
gaggaccccc tgccccctgt gttctcaggc acaccaaagg gcagtggggc tggctacggt	2580
gttggctttg acctggagga attcttaaac cagtctttcg acatgggcgt ggctgatggg	2640
ccacaggatg gccaggcaga ttcagcctct ctctcagcct ccctgcttgc tgactggctc	2700
gaaggccatg gcatgaaccc tgccgatatt gagtccctgc agcgtgagat ccagatggac	2760
tccccaatgc tgctggctga cctgcctgac ctccaggacc cctgaggccc ccagcctgtg	2820
ccttgctgcc acagtagacc tagttccagg atccatggga gcatttctaa aggctttagc	2880
cctggaccca gcaggtgagg ctcggtctgg attattctgc aggttcatct cagaccacc	2940
tttcagcctt aagcagccac ctgagccacc accgagccat ggcaggatcg ggagaccca	3000
actccccctg aacaatcctt ttcagtatta tatttttatt attattatgt tattattaca	3060
ctgtcttttt gccatcaaaa tgaggcctgt gaaatacaag gttcccttct gca	3113

<210> 8  
 <211> 2813  
 <212> DNA  
 <213> Homo sapiens

<400> 8	
ggacagggca gctcaagacg ctgagggtgg ggctgcggcc tttgaacaaa caccatggcc	60
gagcctctga aggaggaaga cggcgaggac ggctctgcgg agccccccgg gcccgtaag	120
gtcgaacccg cccacaccgc tgctctgtga gcggccaaga acctggccct gcttaaagcc	180
cgctccttcg atgtgacctt tgacgtgggc gacgagtacg agatcatcga gaccataggc	240
aacggggcct atggagtggg gtcctccgcc cgccgccgcc tcaccggcca gcagggtggc	300

## EX03-079C-US patentin.txt

atcaagaaga tccctaatagc tttcgaatgtg gtgaccaatg ccaagcggac cctcagggag	360
ctgaagatcc tcaagcactt taaacacgac aacatcatcg ccatcaagga catcctgagg	420
cccaccgtgc cctatggcga attcaaattct gtctacgtgg tcctggacct gatggaaagc	480
gacctgcacc agatcatcca ctccctcacag cccctcacac tggaacacgt gcgctacttc	540
ctgtaccaac tgctgcgggg cctgaagtac atgcactcgg ctccaggtcat ccaccgtgac	600
ctgaagccct ccaacctatt ggtgaatgag aactgtgagc tcaagattgg tgactttggt	660
atggctcgtg gcctgtgcac ctgcggcgct gaacatcagt acttcatgac tgagtatgtg	720
gccacgcgct ggtaccgtgc gcccagagtc atgctctctt tgcatgagta tacacaggct	780
attgacctct ggtctgtggg ctgcatcttt ggtgagatgc tggcccgcg ccagctcttc	840
ccaggcaaaa actatgtaca ccagctacag ctcatcatga tgggtgctggg taccatca	900
ccagccgtga ttcaggctgt gggggctgag aggggtgcggg cctatatcca gagcttgcca	960
ccacgccagc ctgtgccctg ggagacagtg taccagggtg ccgaccgcca ggccctatca	1020
ctgctgggtc gcatgctgcg ttttgagccc agcgctcgca tctcagcagc tgctgccctt	1080
cgccaccctt tcctggccaa gtaccatgat cctgatgatg agcctgactg tgccccgccc	1140
tttgactttg ctttgaccg cgaagccctc actcgggagc gcattaagga ggccattgtg	1200
gctgaaattg aggacttcca tgcaaggcgt gagggcatcc gccaacagat ccgcttccag	1260
ccttctctac agcctgtggc tagtgagcct ggctgtccag atgttgaaat gcccagtccc	1320
tgggctccca gtggggactg tgccatggag tctccaccac cagccccgcc accatgcccc	1380
ggccctgcac ctgacaccat tgatctgacc ctgcagccac ctccaccagt cagtgagcct	1440
gccccaccaa agaaagatgg tgccatctca gacaatacta aggctgccct taaagctgcc	1500
ctgctcaagt ctttgaggag ccggctcaga gatggcccca gcgcaccct ggaggctcct	1560
gagcctcgga agccggtgac agcccaggag cgccagcggg agcgggagga gaagcggcgg	1620
aggcggcaag aacgagccaa ggagcgggag aaacggcggc aggagcggga gcgaaaggaa	1680
cggggggctg gggcctctg gggccccctc actgaccctt tggttgact agtgctcagt	1740
gacaatgaca gaagcctgtt ggaacgctg actcgaatgg cccggcccg agccccagcc	1800
ctcacctctg tgccggcccc tgccccagcg ccaacgcca ccccaacccc agtccaacct	1860
accagtcctc ctccctggccc tgtagcccag cccactggcc cgcaaccaca atctgcgggc	1920
tctacctctg gccctgtacc ccagcctgcc tgcccccccc ctggccctgc accccacccc	1980
actggccctc ctgggcccac ccctgtcccc gcgccacccc agattgccac ctccaccagc	2040
ctccctggctg cccagtcact tgtgccaccc cctgggctgc ctggctccag cccccagga	2100
gttttgctt acttcccacc tggcctgccc cccccagacg ccgggggagc ccctcagtct	2160
tccatgtcag agtcacctga tgtcaacctt gtgaccagc agctatctaa gtcacagggtg	2220

## EX03-079C-US patentin.txt

gaggaccccc tgccccctgt gttctcaggc acaccaaagg gcagtggggc tggctacggt 2280  
 gttggctttg acctggagga attcttaaac cagtctttcg acatgggcgt ggctgatggg 2340  
 ccacaggatg gccaggcaga ttcagcctct ctctcagcct ccctgcttgc tgactggctc 2400  
 gaaggccatg gcatgaaccc tgccgatatt gagtcctgc agcgtgagat ccagatggac 2460  
 tccccaatgc tgctggctga cctgcctgac ctccaggacc cctgaggccc ccagcctgtg 2520  
 ccttgctgcc acagtagacc tagttccagg atccatggga gcattctcaa aggctttagc 2580  
 cctggaccca gcaggtgagg ctcggcttgg attattctgc aggttcatct cagaccacc 2640  
 tttcagcctt aagcagccac ctgagccacc accgagccat ggcaggatcg ggagaccca 2700  
 actccccctg aacaatcctt ttcagtatta tatttttatt attattatgt tattattaca 2760  
 ctgtcttttt gccatcaaaa tgaggcctgt gaaatacaag gttcccttct gca 2813

<210> 9  
 <211> 815  
 <212> PRT  
 <213> Homo sapiens

<400> 9

Met Ala Glu Pro Leu Lys Glu Glu Asp Gly Glu Asp Gly Ser Ala Glu  
1 5 10 15

Pro Pro Ala Arg Glu Gly Arg Thr Arg Pro His Arg Cys Leu Cys Ser  
20 25 30

Ala Lys Asn Leu Ala Leu Leu Lys Ala Arg Ser Phe Asp Val Thr Phe  
35 40 45

Asp Val Gly Asp Glu Tyr Glu Ile Ile Glu Thr Ile Gly Asn Gly Ala  
50 55 60

Tyr Gly Val Val Ser Ser Ala Arg Arg Arg Leu Thr Gly Gln Gln Val  
65 70 75 80

Ala Ile Lys Lys Ile Pro Asn Ala Phe Asp Val Val Thr Asn Ala Lys  
85 90 95

Arg Thr Leu Arg Glu Leu Lys Ile Leu Lys His Phe Lys His Asp Asn  
100 105 110

Ile Ile Ala Ile Lys Asp Ile Leu Arg Pro Thr Val Pro Tyr Gly Glu  
115 120 125

Phe Lys Ser Val Tyr Val Val Leu Asp Leu Met Glu Ser Asp Leu His  
130 135 140

EX03-079C-US patentin.txt

Gln Ile Ile His Ser Ser Gln Pro Leu Thr Leu Glu His Val Arg Tyr  
145 150 155 160

Phe Leu Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Met His Ser Ala Gln  
165 170 175

Val Ile His Arg Asp Leu Lys Pro Ser Asn Leu Leu Val Asn Glu Asn  
180 185 190

Cys Glu Leu Lys Ile Gly Asp Phe Gly Met Ala Arg Gly Leu Cys Thr  
195 200 205

Ser Pro Ala Glu His Gln Tyr Phe Met Thr Glu Tyr Val Ala Thr Arg  
210 215 220

Trp Tyr Arg Ala Pro Glu Leu Met Leu Ser Leu His Glu Tyr Thr Gln  
225 230 235 240

Ala Ile Asp Leu Trp Ser Val Gly Cys Ile Phe Gly Glu Met Leu Ala  
245 250 255

Arg Arg Gln Leu Phe Pro Gly Lys Asn Tyr Val His Gln Leu Gln Leu  
260 265 270

Ile Met Met Val Leu Gly Thr Pro Ser Pro Ala Val Ile Gln Ala Val  
275 280 285

Gly Ala Glu Arg Val Arg Ala Tyr Ile Gln Ser Leu Pro Pro Arg Gln  
290 295 300

Pro Val Pro Trp Glu Thr Val Tyr Pro Gly Ala Asp Arg Gln Ala Leu  
305 310 315 320

Ser Leu Leu Gly Arg Met Leu Arg Phe Glu Pro Ser Ala Arg Ile Ser  
325 330 335

Ala Ala Ala Ala Leu Arg His Pro Phe Leu Ala Lys Tyr His Asp Pro  
340 345 350

Asp Asp Glu Pro Asp Cys Ala Pro Pro Phe Asp Phe Ala Phe Asp Arg  
355 360 365

Glu Ala Leu Thr Arg Glu Arg Ile Lys Glu Ala Ile Val Ala Glu Ile  
370 375 380

Glu Asp Phe His Ala Arg Arg Glu Gly Ile Arg Gln Gln Ile Arg Phe  
Page 15

385

390

395

400

Gln Pro Ser Leu Gln Pro Val Ala Ser Glu Pro Gly Cys Pro Asp Val  
 405 410 415

Glu Met Pro Ser Pro Trp Ala Pro Ser Gly Asp Cys Ala Met Glu Ser  
 420 425 430

Pro Pro Pro Ala Pro Pro Pro Cys Pro Gly Pro Ala Pro Asp Thr Ile  
 435 440 445

Asp Leu Thr Leu Gln Pro Pro Pro Pro Val Ser Glu Pro Ala Pro Pro  
 450 455 460

Lys Lys Asp Gly Ala Ile Ser Asp Asn Thr Lys Ala Ala Leu Lys Ala  
 465 470 475 480

Ala Leu Leu Lys Ser Leu Arg Ser Arg Leu Arg Asp Gly Pro Ser Ala  
 485 490 495

Pro Leu Glu Ala Pro Glu Pro Arg Lys Pro Val Thr Ala Gln Glu Arg  
 500 505 510

Gln Arg Glu Arg Glu Glu Lys Arg Arg Arg Arg Gln Glu Arg Ala Lys  
 515 520 525

Glu Arg Glu Lys Arg Arg Gln Glu Arg Glu Arg Lys Glu Arg Gly Ala  
 530 535 540

Gly Ala Ser Gly Gly Pro Ser Thr Asp Pro Leu Ala Gly Leu Val Leu  
 545 550 555 560

Ser Asp Asn Asp Arg Ser Leu Leu Glu Arg Trp Thr Arg Met Ala Arg  
 565 570 575

Pro Ala Ala Pro Ala Leu Thr Ser Val Pro Ala Pro Ala Pro Ala Pro  
 580 585 590

Thr Pro Thr Pro Thr Pro Val Gln Pro Thr Ser Pro Pro Pro Gly Pro  
 595 600 605

Leu Ala Gln Pro Thr Gly Pro Gln Pro Gln Ser Ala Gly Ser Thr Ser  
 610 615 620

Gly Pro Val Pro Gln Pro Ala Cys Pro Pro Pro Gly Pro Ala Pro His  
 625 630 635 640



## EX03-079C-US patentin.txt

Pro Thr Gly Pro Pro Gly Pro Ile Pro Val Pro Ala Pro Pro Gln Ile  
 645 650 655

Ala Thr Ser Thr Ser Leu Leu Ala Ala Gln Ser Leu Val Pro Pro Pro  
 660 665 670

Gly Leu Pro Gly Ser Ser Thr Pro Gly Val Leu Pro Tyr Phe Pro Pro  
 675 680 685

Gly Leu Pro Pro Pro Asp Ala Gly Gly Ala Pro Gln Ser Ser Met Ser  
 690 695 700

Glu Ser Pro Asp Val Asn Leu Val Thr Gln Gln Leu Ser Lys Ser Gln  
 705 710 715 720

Val Glu Asp Pro Leu Pro Pro Val Phe Ser Gly Thr Pro Lys Gly Ser  
 725 730 735

Gly Ala Gly Tyr Gly Val Gly Phe Asp Leu Glu Glu Phe Leu Asn Gln  
 740 745 750

Ser Phe Asp Met Gly Val Ala Asp Gly Pro Gln Asp Gly Gln Ala Asp  
 755 760 765

Ser Ala Ser Leu Ser Ala Ser Leu Leu Ala Asp Trp Leu Glu Gly His  
 770 775 780

Gly Met Asn Pro Ala Asp Ile Glu Ser Leu Gln Arg Glu Ile Gln Met  
 785 790 795 800

Asp Ser Pro Met Leu Leu Ala Asp Leu Pro Asp Leu Gln Asp Pro  
 805 810 815